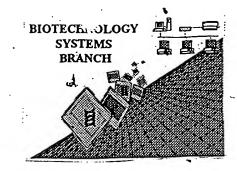
0400

## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10 005,337
Source:	OIPE
Date Processed by STIC:	12/14/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

## Raw Sequence Listing Error Summary . . .

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10 005, 337
ATTN: NEW RULES CASES	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) 4+5 missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
"bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

```
Does Not Comply
                    Input Set : A:\Seqlist6064.txt
                    Output Set: N:\CRF3\12142001\1005337.raw Corrected Diskette Needed
      3 <110> APPLICANT: BENOIT, Patrick
             SCHWARTZ, Bertrand
             BRANELLEC, Didier
      5
             CHIEN, Kenneth R.
     6
      8 <120> TITLE OF INVENTION: SEQUENCES UPSTREAM OF THE CARP GENE, VECTORS CONTAINING
             THEM AND USES THEREOF
     11 <130> FILE REFERENCE: 03806.0530-00000
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/005,337
    15 <141> CURRENT FILING DATE: 2001-12-07
    17 <160> NUMBER OF SEQ ID NOS: 5
    19 <170> SOFTWARE: PatentIn Ver. 2.1
    21 <210> SEQ ID NO: 1
    22 <211> LENGTH: 2358
    23 <212> TYPE: DNA
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    29 acacttetge aageeceate etetacaagg tgeteattgg gaattteetg gagettetet 180
    30 ttcaggatca gcctgattct agggcagcag ttctcaacct gggggcctcg acccctttgg 240
    31 qqqaatcaaa cqacccttta caqqqqtcac atatcatcta tcctatatqt caqqtattta 300
    32 cattacqatt cqtaacaqta qcaaaattac aqqtatqaaa taqcaatqaa ataattttat 360
    33 gattgaaggt caccacaaca tgaggccgcc acactgttct agagaaaaat cacctgggtg 420
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    35 gaaageettt cagetgttet getggggete ttagtaagte tgagtaggaa etgtatgtae 540
    36 caggtctgct tcttatgggt ggagccaaga cgcatcgtgg gtggagcgaa gacgcaacct 600
    37 caccttctag ctctgcatcc atagcaagta gcctaatgtt tctgtgtcta ggtgtcatct 660
    38 ctgtgaatcg agateettgg eettgettga attagggagg cacaaaatae teagagatte 720
    39 aagactgote agcageeeag agteetteet caaaggaaag gteteaacte teageeeeee 780
    40 ttagetetga gteaggeetg gaacaaaegg ceaeaggaat gagaaaaget geeatagetg 840
    41 cttgtcactt caagaggtca aagaaaatag tgttaaccat gaaaacgaga agaccaacag 900
    42 ttatccattg atagcgtctc aggacagata ggacagagag aacactagga gaggggaacc 960
    43 cacgaaggac aaggtattag tgtgttggtt ttcagggcaa tgtcttgtac tgaagattct 1020
    44 agaaacacaa tttgctggtt gaacagctga agtggggtgg gggttcttac cccatgttca 1080
    45 tggaagggtg agtgaggaga gacagatata tgatggccag cataacaaac atacacaaca 1140
    46 coctaattaa cactteeete ttetaetgae acceeettea eteteetett teataaaaaa 1200
    47 taaaaaaagt attttatgtg gctcttacga tagaatcttt cctcgaacta taaaaagatc 1260
    48 taaatattta tatttttcac attttaatat cttagcgatg acaagccaga aacaagtatt 1320
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    52 agcatecaag ttgtgettet getaagaaet ggaeteaeat etetetgtge ateaettegg 1560
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    54 gcactaatta tggccagtga caccatagag tcaaagtgca ttactgaatg ctttcaattt 1680
    55 ctcctaatgc tggtacgatg gcatgtcaca gggccatttt agctgcagac atcactccag 1740
    56 agaatteeaa acagatagag acaagtggea eccagaeeea teteetteee etegggetga 1800
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57 ttatccccag aaataggatg tcccaaagca acacttccca gccaactgga gtgctgataa 1860

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/005,337

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DATE: 12/14/2001

TIME: 09:51:23

RAW SEQUENCE LISTING DATE: 12/14/2001 PATENT APPLICATION: US/10/005,337 TIME: 09:51:23

Input Set : A:\Seqlist6064.txt

Output Set: N:\CRF3\12142001\I005337.raw

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60 acaggeaget gteecetgge tteeegatae gtgggatgae tegeattget gageggtgtg 2040
61 qtcactgcca aaggaatgac cctctcacat ttcttcctga ttcgcatacg ccgcggccag 2100
62 cttgtcatct ccctcttggg cttcccagac actaagtctg gaatgaaaat tcacctgcct 2160
63 ctgaattggc cactggtggg ggcaggggtg tgacttggct tcccaggctg gaagattatc 2220
64 teacceagee etagetatat aacgggetgg tgtggagggg etecaeaggg ecagttecag 2280
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77 catcccacag teetteece aaacaettet cetectaata ceteceteag tttgggteag 180
78 qcctqqaaca aaaaggcata cqaaatggta gaaaaagtgt ccatgactac ttctgactta 240
79 qatqaaqaqa ccaatqaaaa taqtaatqac tctqtttqct tcaqcaqqac atatactaaa 300
80 ataggageta tacaaagaag attageatgg actetgtgea agaatgacae acaaatttgt 360
81 qaaacattcc atatattaaa aataaataaa taataaaqag aaaaggaaaa aattaaaaaag 420
82 aaaatagtga tagctgtgtc catctcaaag aaaagcccag gagatttcct ttatttaccc 480
83 cctttaagat agaatattag qagaccqqaa catatgatac aggaggtact gggagggtcc 540
84 ctctttgtca atgttttgtc ttggggtggg gagtcgatgt cttctcaaag tttcagaaac 600
85 accatccact gactgagcat tcaaggggca agaggagaat ggcagccaca tttgttgatt 660
86 gggtgagttt ggggagaaat agacacacaa aggtcaaaca taacttccta attaacactt 720
87 ccctccattc acaattccct tctcccattc ttctctcctg tcttttacts akaraaaccc 780
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90 agccacgtgt ctcaaatctt gatgcatcag aatcatctgg gtgctttkaa attcaagatg 960
91 attectacga gttaccataa atcaactcag aattecetgg agtggggeca gggatetgta 1020
92 tttctgacaa gctcccacag gtgattcctt tccccacagc atttgagaac ttcagctcaa 1080
93 tgacctaatc agagtcctgc cattgctaat atctggtctc atttttbtca tatatatat 1140
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95 gctaagcaat cttcctgtct ctgcctccca aaatgttggg attacaggtg taagccactg 1260
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103 aagetgacaa agaaaaaaag ggeagtgatg tggtgeaatg teaacagaca getgteeect 1740
104 gactettgae aaataggatg acttgeattg etgagegatg tgateaceae caaaggaatg 1800
106 tetteagett eccagacaet gagtetggaa tgaaaattea eetgeetetg agttggetee 1920
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108 gctatataag ctgaccggtg tggaggggcc cagcagggcc aactccaggg attccttcca 2040
109 cgacagaaaa acatacaaga ctccttcagc caac
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RAW SEQUENCE LISTING DATE: 12/14/2001
PATENT APPLICATION: US/10/005,337 TIME: 09:51:23

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Output Set: N:\CRF3\12142001\I005337.raw

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124 Asp Thr Glu Met Pro Phe Trp Pro Thr Asn Phe Gly Ile Ser Ser Val
                                 40
127 Asp Leu Ser Val Met Glu Asp His Ser His Ser Phe Asp Ile Lys Pro
                             55
130 Phe Thr Thr Val Asp Phe Ser Ser Ile Ser Thr Pro His Tyr Glu Asp
                         70
133 Ile Pro Phe Thr Arg Thr Asp Pro Val Val Ala Asp Tyr Lys Tyr Asp
136 Leu Lys Leu Gln Glu Tyr Gln Ser Ala Ile Lys Val Glu Pro Ala Ser
137
                100
                                    105
139 Pro Pro Tyr Tyr Ser Glu Lys Thr Gln Leu Tyr Asn Lys Pro His Glu
            115
                                120
                                                    125
142 Glu Pro Ser Asn Ser Leu Met Ala Ile Glu Cys Arg Val Cys Gly Asp
                            135
145 Lys Ala Ser Gly Phe His Tyr Gly Val His Ala Cys Glu Gly Cys Lys
                        150
148 Gly Phe Phe Arg Arg Thr Ile Arg Leu Lys Leu Ile Tyr Asp Arg Cys
                    165
                                        170
151 Asp Leu Asn Cys Arg Ile His Lys Lys Ser Arg Asn Lys Cys Gln Tyr
                                    185
154 Cys Arg Phe Gln Lys Cys Leu Ala Val Gly Met Ser His Asn Ala Ile
                                200
155
157 Arg Phe Gly Arg Met Pro Gln Ala Glu Lys Glu Lys Leu Leu Ala Glu
                            215
160 Ile Ser Ser Asp Ile Asp Gln Leu Asn Pro Glu Ser Ala Asp Leu Arg
                        230
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163 Ala Leu Ala Lys His Leu Tyr Asp Ser Tyr Ile Lys Ser Phe Pro Leu
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                                        250
166 Thr Lys Ala Lys Ala Arg Ala Ile Leu Thr Gly Lys Thr Thr Asp Lys
                260
                                    265
169 Ser Pro Phe Val Ile Tyr Asp Met Asn Ser Leu Met Met Gly Glu Asp
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172 Lys Ile Lys Phe Lys His Ile Thr Pro Leu Gln Glu Gln Ser Lys Glu
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                                                300
175 Val Ala Ile Arg Ile Phe Gln Gly Cys Gln Phe Arg Ser Val Glu Ala
176 305
                        310
                                            315
178 Val Gln Glu Ile Thr Glu Tyr Ala Lys Ser Ile Pro Gly Phe Val Asn
181 Leu Asp Leu Asn Asp Gln Val Thr Leu Leu Lys Tyr Gly Val His Glu
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RAW SEQUENCE LISTING DATE: 12/14/2001 PATENT APPLICATION: US/10/005,337 TIME: 09:51:23

Input Set : A:\Seqlist6064.txt

Output Set: N:\CRF3\12142001\I005337.raw

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184 185	Ile	Ile	Tyr 355	Thr	Met	Leu	Ala	Ser 360	Leu	Met	Asn	Lys	Asp 365	Gly	Val	Leu
	Ile	Ser 370		Gly	Gln	Gly	Phe 375		Thr	Arg	Glu	Phe 380	Leu	Lys	Ser	Leu
190	Arg 385		Pro	Phe	Gly	Asp 390	Phe	Met	Glu	Pro	Lys 395		Glu	Phe	Ala	Val 400
		Dhe	Δgn	Δla	T.e.II		Leu	Δsn	Δsn	Ser		T.e.11	Δla	Tle	Phe	
194	_				405					410					415	
197				420			Gly		425					430		
199 200	Pro	Ile	Glu 435	Asp	Ile	Gln	Asp	Asn 440	Leu	Leu	Gln	Ala	Leu 445	Glu	Leu	Gln
202 203	Leu	Lys 450	Leu	Asn	His	Pro	Glu 455	Ser	Ser	Gln	Leu	Phe 460	Ala	Lys	Leu	Leu
-	Gln		Met	Thr	Asp	Leu	Arg	Gln	Tle	Va 1	Thr		His	Va 1	Gln	Leu
	465	_				470	5				475					480
208	Leu	${\tt Gln}$	Val	Ile	Lys	Lys	Thr	Glu	Thr	Asp	Met	Ser	Leu	His	Pro	Leu
209					485					490					495	
211 212	Leu	Gln	Glu	Ile 500	Tyr	Lys	Asp	Leu	Tyr 505	Ala	Trp	Ala	Ile	Leu 510	Thr	Gly
	_	Thr	Thr	Asp	Lys	Ser	Pro		Val	Ile	Tyr	Asp	Met	Asn	Ser	Leu
215			515					520					525			_
217 218	Met	Met 530	Gly	Glu	Asp.	Lys	Ile 535	Lys	Phe	Lys	His	11e 540	Thr	Pro	Leu	Gln
		Gln	Ser	Lys	Glu		Ala	Ile	Arg	Ile	Phe	Gln	Gly	Cys	Gln	
	545					550					555					560
223 224	Arg	Ser	Val	Glu	Ala 565	Val	Gln	Glu	Ile	Thr 570	Glu	Tyr	Ala	Lys	Ser 575	Ile
226 227	Pro	Gly	Phe	Val 580	Asn	Leu	Asp	Leu	Asn 585	Asp	Gln	Val	Thr	Leu 590	Leu	Lys
	Tyr	Gly	Val		Glu	Ile	Ile	Tyr		Met	Leu	Ala	Ser		Met	Asn
230	_	_	595					600					605			
	Lys	_	Gly	Val	Leu	Ile	Ser	Glu	Gly	Gln	Gly		Met	Thr	Arg	Glu
233	Dh.	610	<b>.</b>	<b>G</b>	T	3	615	D	Dh.	<b>a</b> 1	3	620	34-4	<b>a</b> 1	D	T
	625	Leu	гаг	ser	Leu	630	Lys	PLO	Pne	СТУ	635	Pue	мес	GIU	PLO	Lys 640
		Glu	Phe	Δla	Val		Phe	Δsn	Δla	T.e.ii		T.eu	Asn	Δsn	Ser	
239					645	2,5				650			op	op	655	1106
	Leu	Ala	Ile	Phe		Ala	Val	Ile	Ile		Ser	Gly	Asp	Arg		Gly
242				660					665			_	-	670		_
244	Leu	Leu	Asn	Val	Lys	${\tt Pro}$	Ile	Glu	Asp	Ile	${\tt Gln}$	Asp	Asn	Leu	Leu	Gln
245			675					680					685			
	Ala		Glu	Leu	Gln	Leu	Lys	Leu	Asn	His	Pro		Ser	Ser	Gln	Leu
248		690	_			- 1	695		m1	_	_	700	- 1			<b></b> 1
		Ala	ьуs	Leu	Leu		Lys	мet	Thr	Asp		Arg	GIN	тте	val	
251		uic	V=1	Gln	Lou	710	Gln	Wa 1	Tlo	Lve	715	<b>ጥ</b> ኮ ~	Glu	ሞኮኮ	λας	720 Met
254	GIU	птэ	val	GIII	725	ьeu	GIII	val	TTG	730	пХS	THE	GIU	TIIT	735	MEL
	Ser	Leu	His	Pro		Leu	Gln	Glu	Ile		Lys	Asp	Leu	Tyr	. 55	
										-	-	-		-		

RAW SEQUENCE LISTING

C--> 275 ggggtctaga aggtgcacac caatgtggtg a

PATENT APPLICATION: US/10/005,337

DATE: 12/14/2001 TIME: 09:51:23

31

Input Set : A:\Seqlist6064.txt

Output Set: N:\CRF3\12142001\I005337.raw

Requires L2207 to L2737 - with explanation

Requires L2207 to L2737 - see erver

Summary sheet item | 1

Summary sheet item | 1 745 257 740 260 <210> SEQ ID NO: 4 261 <211> LENGTH: 30 262 <212> TYPE: DNA 263 <213> ORGANISM: Artificial sequence W--> 265 <220> FEATURE: W--> 265 <223> OTHER INFORMATION: 265 <400> SEQUENCE: 4 30 C--> 266 ggcgatttaa ataatgtagt cttatgcaat 269 <210> SEQ ID NO: 5 270 <211> LENGTH: 31 271 <212> TYPE: DNA 272 <213> ORGANISM: Artificial sequence W--> 274 <220> FEATURE: W--> 274 <223> OTHER INFORMATION: 274 <400> SEQUENCE: 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,337

DATE: 12/14/2001

TIME: 09:51:24

Input Set : A:\Seqlist6064.txt

Output Set: N:\CRF3\12142001\I005337.raw

L:13 M:270 C: Current Application Number differs, Replaced Application Number

L:265 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:265 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:266 M:112 C: (48) String data converted to lower case,
L:274 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:274 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:275 M:112 C: (48) String data converted to lower case,